MAN 2 8 2004 25 THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Duan et al.

Appl. No.: 10/674,060

Filed: September 30, 2003

For: Large Area Nanoenabled

Macroelectronic Substrates and

Uses Therefor

Confirmation No.: 1190

Art Unit: 2812

Examiner: Anya, Igwe U.

Atty. Docket: 2132.0010002

Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent

application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.
- ☐ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.
 - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first

cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

- b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- c. Attached is our PTO-2038 Credit Card Payment Form in the amount of

 ______ in payment of the fee under 37 C.F.R. § 1.17(p).
- ☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$_____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:
 - a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

	☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of
	information in this Information Disclosure Statement was cited in a
	communication from a foreign patent office in a counterpart foreign
	application and, to my knowledge after making reasonable inquiry, was
	known to any individual designated in 37 C.F.R. § 1.56(c) more than
	three months prior to the filing of this Information Disclosure Statement.
	37 C.F.R. § 1.97(e)(2).
	The document(s) was/were cited in a search report by a foreign patent office in a
	counterpart foreign application. Submission of an English language version of
	the search report that indicates the degree of relevance found by the foreign office
	is provided in satisfaction of the requirement for a concise explanation of
	relevance. 1138 OG 37, 38.
<u> </u>	A concise explanation of the relevance of the non-English language document(s)
	appears below:
⊠ 7.	Copies of the documents are submitted herewith.
☐ 8.	Copies of the documents were cited by or submitted to the Office in an IDS that
	complies with 37 C.F.R. § 1.98(a)-(c) in Application No, filed
	, which is relied upon for an earlier filing date under 35 U.S.C.
	§ 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).
<u> </u>	No copies of U.S. patents and patent application publications cited on the
	attached Form PTO-1449 are submitted in accordance with 1276 OG 55 because
	this application was filed after June 30, 2003.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

rMr & W

Jeffrey S. Weaver Attorney for Applicants Registration No. 45,608

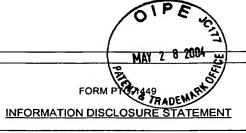
Date: May 28, 2004

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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				U.S. PAT	TENT DOCUMENTS				
EXAMINER INITIAL		DOC NUM	OMENI	DATE	NAME	CLASS	s	SUB-CLASS	FILING DATE
	AA1	US 2	002/0130311	09/2002	Lieber et al.				
	AB1	US 2	002/0130353	09/2002	Lieber et al.				
	AC1					_			
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EXAMINER INITIAL		DOC NUM	UMENT BER	DATE	COUNTRY	CLASS	3	SUB-CLASS	TRANSLATION
	AL1								Yes No
	AM1			-					Yes No
	AN1								Yes No
	AO1								Yes No
	AP1								Yes No
			OTHER (Ir	cluding Autho	or, Title, Date, Pertinent F	ages, e	tc.)		
	AR	1	Chung et al., "Silicon nanowire devices", American Institute of Physics, Vol. 76, No. 15, A 2000, 5 pgs.						. 15, April 10,
	AS	1	Duan et al., "High-performance thin-film transistors using semiconductor nanowires and nanoribbons", Nature, Vol. 425, September 18, 2003, pgs. 274-278						
Toshishige Yamada, "Analysis of submicron carbon nanotube field-effect transistors", Appl. Physics Letters, Vol. 76, No. 5, January 31, 2000, American Institute of Physics, 5 pgs.									
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ATTY. DOCKET NO.	APPLICATION NO.		
2132.0010002	10/674,060		
FIRST NAMED INVENTOR Xiangfeng			
FILING DATE September 30, 2003	ART UNIT 2812		

				U.S	. PATENT DOCUMENT	S		
EXAMINER INITIAL		DOCU	JMENT BER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2							
	AB2							
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EXAMINER INITIAL		DOCUMENT NUMBER		DATE	COUNTRY	CLASS	SUB-CLASS TRANSLATION	
	AL2							Yes No
	AM2							Yes No
	AN2							Yes No
	AO2							Yes No
								Yes
	AP2	<u> </u>	OTHER	│ (Including A	ا Author, Title, Date, Pert	inent Pages, etc.)	1	No
	AR 2 Tans et al., "Room-temperature transistor based on a single carbon nanotube", Nature, Vol. 393, May 7, 1998, 5 pgs.							
	AS	2		-				
	АТ	2						
EXAMINER		1	<u> </u>			DATE	CONSIDERED	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.